

## **Amendments to the Specification**

### **Drawing Amendments**

Please replace both drawing sheets on file with the enclosed replacement sheets and add the enclosed additional drawing sheets. The amendments are summarized as follows:

- Replacement drawing sheet 1 contains an amended indicator that reads "Sheet 1 of 4" and an new arrow indicating the direction of fluid flow through the choke,
- Replacement drawing sheet 2 contains an amended indicator that reads "Sheet 2 of 4" and an new arrow indicating the direction of fluid flow through the choke,
- Additional sheet 3 contains new Figures 2A and 3A, and
- Additional sheet 4 contains new Figure 4.

## Specification

Please replace the text following the heading BRIEF DESCRIPTION OF THE DRAWING on page 2 of the ***Substitute Specification*** filed on 26 June 2007 with the following:

In the accompanying drawings:

Figure 1 shows a schematic view of a drilling system according to the invention;

Figure 2 shows a schematic view of a first embodiment of a drilling fluid outlet system according to the invention;

Figure 3 shows a second embodiment of a drilling fluid outlet system according to the invention;

Figures 2A and 3A show the embodiments of Figures 2 and 3, respectively, in alternative configurations; and

Figure 4 is a schematic diagram of a four-way valve.

On page 5 of the ***Substitute Specification*** filed on 26 June 2007, please replace lines 7-33 with the following:

In Figure 2 the drilling fluid outlet system 17 is shown in more detail. The system 17 comprises a valve 20 and a bi-directional choke 21. In the position of the valve 20 as shown in figure 2 the inlet pipe 16 is connected to the first connection pipe 22 of the choke 21. The outlet pipe 19 is connected to the second connection 23 of the choke 21. When the choke 21 gets clogged, the valve 20 is rotated as shown in Figure 2A, such that the inlet pipe 16 is connected to the second connection 23 of the choke 21 and the outlet pipe 19 is connected to the first connection 22 of the choke 21. In this way the flow direction is alternated and any debris, which is clogging the choke 21 is flushed away through outlet pipe 19.

In Figure 3 a second embodiment 30 of a drilling fluid outlet system according to the invention is shown. The system

30 again comprises a valve 31 and two uni-directional chokes 32 and 33. Such chokes 32,33 have a choking action in just one flow direction. Furthermore, the system 30 comprises filter means 34, 35 that filters large debris in the mud, which could damage the chokes 32,33. An accumulator 36 is connected to the inlet pipe 16, which ensures that a constant flow is maintained while the flow direction of the system 30 is alternated by turning the valve 31. Any debris present on the filter means 34,35 or in the chokes 32,33 is cleaned by alternating the flow direction of the system 30 as shown in Figure 3A and is flushed away through outlet pipe 19.

On page 6 of the ***Substitute Specification*** filed on 26 June 2007, above the first line of text, please insert the following:

In another embodiment of the drilling system according to the invention, the alternating means comprises a four way valve 50 having four connections, namely inlet 16, outlet 19, first choke connection 52, and second choke connection 53 and wherein the connections are connected two by two, as shown in Figure 4. As can be seen, when the alternating means is in its alternative configuration, the direction of fluid flow through the choke is reversed. With such a valve, which could be actuated automatically, alternating of the flow is performed quickly, thereby minimizing interruption of the flow.